

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Heideman et al.

) Attorney Docket No.
) 080743165002
)

Serial No.: 09/693,803

Filed: October 20, 2000

For: INTEGRATED OPTICAL
LIGHTGUIDE DEVICE

Examiner: Kang, Juliana

Group Art Unit: 2874

Confirmation No.: 8677

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AMENDMENT TO CLAIMS

Claims 1-13 (cancelled)

Claim 25. (currently amended) A method for determining the amount of

light passing through an integrated optical lightguide device comprising the steps of:

providing a lightguide device;

locating a light source at an entrance of said lightguide device;

locating a light detector at an exit of said lightguide device;

transmitting light of arbitrary wavelength through said lightguide device in a
direction of light propagation;

locating in a non-periodic manner or arbitrary length distribution several types of
segments in said lightguide device, each type of segment having a different refractive
index profile wherein the refractive index profile of at least one type of segment being
sensitive to the value of an external physical parameter or chemical compound activating
said at least one type of segment;

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